

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e paspalinine

E1	2	PASPALINIC/BI
E2	1	PASPALININ/BI
E3	6 -->	PASPALININE/BI
E4	3	PASPALITREM/BI
E5	4	PASPALOIDES/BI
E6	35	PASPALUM/BI
E7	1	PASPAT/BI
E8	1	PASPER/BI
E9	5	PASPER2/BI
E10	1	PASPERTIN/BI
E11	1	PASPHEN/BI
E12	1	PASPHENE/BI

=> s e3

L1 6 PASPALININE/BI

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.40	5.61

FILE 'CAPLUS' ENTERED AT 19:15:53 ON 29 AUG 2007

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FILE COVERS 1907 - 29 Aug 2007 VOL 147 ISS 10

FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

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=> s l1/prep

	33 L1
	4453515 PREP/RL
L2	8 L1/PREP
	(L1 (L) PREP/RL)

=> s l2 and journal/dt

	20063032 JOURNAL/DT
L3	7 L2 AND JOURNAL/DT

=> d 1-7 ibib abs

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1199097 CAPLUS

DOCUMENT NUMBER: 147:8530

TITLE: Production of indole diterpenes by Aspergillus

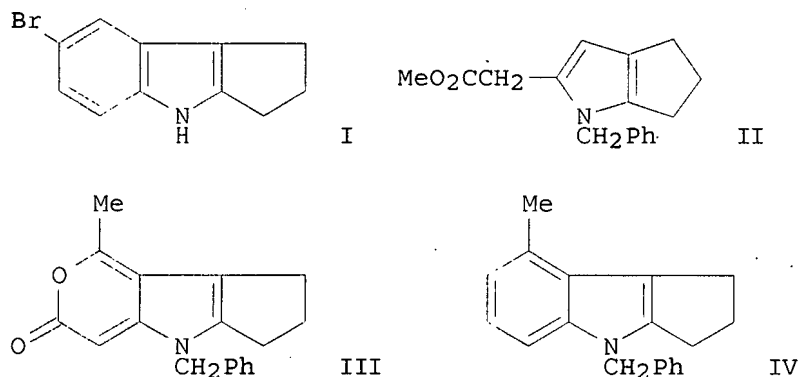
alliaceus
AUTHOR(S): Junker, B.; Walker, A.; Cannors, N.; Seeley, A.;
Masurekar, P.; Hesse, M.
CORPORATE SOURCE: Merck Research Laboratories, Fermentation Development
and Operations, Rahway, NJ, 07065, USA
SOURCE: Biotechnology and Bioengineering (2006), 95(5),
919-937
CODEN: BIBIAU; ISSN: 0006-3592
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Production of two related indole diterpenes (differing by a di-Me leucine side chain) by *Aspergillus alliaceus* was improved through several pilot scale ferms. Media were optimized through focus primarily on initial increases, as well as mid-cycle addns., of carbon and nitrogen sources. Fermentation conditions were improved by varying ventilation conditions using various combinations of air flowrate and back-pressure set points. Production improvements were quantified based on total indole diterpene concentration as well as the ratio of the major-to-minor byproduct components. Those changes with a pos. substantial impact primarily on total indole diterpene concentration included early cycle glycerol shots and enhanced ventilation conditions (high air flowrate, low back-pressure). Those changes with a significant impact primarily on the ratio included higher initial cerelose, soybean oil, monosodium glutamate, tryptophan, or ammonium sulfate concns., higher broth pH, and enhanced ventilation conditions. A few changes (higher initial glycerol and monosodium glutamate concns.) resulted in less notable and desirable titer or ratio changes when implemented individually, but they were adopted to more fully realize the impact of other improvements or to simplify processing. Overall, total indole diterpene titers were improved at the 600 L pilot scale from 125-175 mg/L with a ratio of about 2.1 to 200-260 mg/L with a ratio of about 3.3-4.5. Thus, the ability to optimize total indole diterpene titer and/or ratio readily exists for secondary metabolite production using *Aspergillus* cultures.

REFERENCE COUNT: 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT .

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:560774 CAPLUS
DOCUMENT NUMBER: 123:56337
TITLE: Cyclopenta[b]indoles. Part 2. Model studies towards
the tremorgenic mycotoxins
AUTHOR(S): Harrison, Carrie-Ann; Jackson, P. Mark; Moody,
Christopher J.; Williams, Jonathan M. J.
CORPORATE SOURCE: Dep. of Chemistry, Loughborough Univ. of Technology,
Leicestershire, LE11 3TU, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions
1: Organic and Bio-Organic Chemistry (1995), (9),
1131-6
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 123:56337
GI



AB The 7-bromocyclopenta[b]indole I has been converted into the hydroxybutenyl derivs. and a tetrahydrofuranylidene derivative in model studies towards the elaboration of paspalitrem and lolitrem type side chains. In a parallel approach, the cyclopentapyrrole II was converted into the fused α -pyrone III which acted as a pyrrole-2,3-quinodimethane, and underwent Diels-Alder reaction to give, after loss of carbon dioxide, the cyclopentaindoles, e.g. IV.

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:129335 CAPLUS
 DOCUMENT NUMBER: 116:129335
 TITLE: Total syntheses of (+)-paspalicine and (+)-paspalinine
 AUTHOR(S): Sunazuka, T.; Smith, A. B., III; Leenay, T. L.; Wood, J. K.
 CORPORATE SOURCE: Res. Cent. Biol. Funct., Kitasato Inst., Japan
 SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1991), 33rd, 172-9
 CODEN: TYKYDS
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese

AB A symposium on the total synthesis of the title compds. in which a unified strategy in synthesis of (-)-paspaline is exploited.

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:129296 CAPLUS
 DOCUMENT NUMBER: 116:129296
 TITLE: Indole diterpene synthetic studies. 8. The total synthesis of (+)-paspalicine and (+)-paspalinine
 AUTHOR(S): Smith, Amos B., III; Kingery-Wood, Jill; Leenay, Tamara L.; Nolen, Ernest G.; Sunazuka, Toshiaki
 CORPORATE SOURCE: Dep. Chem., Univ. Pennsylvania, Philadelphia, PA, 19104, USA
 SOURCE: Journal of the American Chemical Society (1992), 114(4), 1438-49
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 116:129296
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The development of a unified synthetic strategy for the indole diterpene tremorgens has led to the first total syntheses of (+)-paspalicine (I; R = H) and (+)-paspalinine (I; R = OH), in 22 and 23 steps, resp. The

cornerstone of the approach is the intermediacy of (-)-II this proposed common precursor to the simple indole diterpenes was previously generated in nine steps from (+)-Wieland-Miescher ketone (III) in an earlier synthesis of (-)-paspaline. Key transformations include installation of the indole unit via the Gassman protocol, alkylation of the thermodyn. anion of dimethylhydrazone IV with epoxide (-)-V, and RhCl₃-promoted isomerization of the β,γ -unsatd. ketone in (+)-VI to afford I (R = H). I (R = OH) in turn was secured via SeO₂ oxidation of I (R = H), a particularly noteworthy result given the importance of the C(4b) hydroxyl group for tremorgenic activity. MM2 calcns. revealed that I embody the less stable relative configuration of the F- and G-ring bicyclic ketal moiety.

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:207536 CAPLUS
DOCUMENT NUMBER: 114:207536
TITLE: Total syntheses of (+)-paspalicine and (+)-paspalinine
AUTHOR(S): Smith, Amos B., III; Sunazuka, Toshiaki; Leenay, Tamara L.; Kingery-Wood, Jill
CORPORATE SOURCE: Monell Chem. Senses Cent., Univ. Pennsylvania, Philadelphia, PA, 19104, USA
SOURCE: Journal of the American Chemical Society (1990), 112(22), 8197-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:207536
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

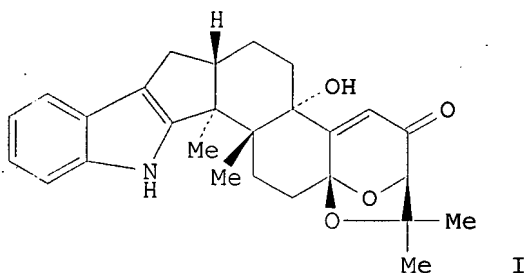
AB Total syntheses of the indole diterpenes (+)-paspalicine (I) (R = H) (II) and paspalanine I (R = OH) were achieved in 22 and 23 steps, resp., via a unified strategy applicable to the entire class of simple indole tremorgens. The intermediacy of tricyclic ketone III prepared in 9 steps from (+)-Wieland-Miescher ketone, served as the starting material for this approach. Central features of the scheme included installation of the indole unit via the Gassman protocol, construction of rings F and G by alkylation of the thermodyn. anion of the dimethylhydrazone of (+)-IV with epoxide (-)-V, and an RhCl₃-promoted migration of the β,γ -olefinic bond in (+)-VI to afford II. (+)-Paspalinine in turn was secured via SeO₂ oxidation of II. The latter transformation is important given the requirement of a C(4b) tertiary hydroxyl group for tremorgenic activity.

L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:109279 CAPLUS
DOCUMENT NUMBER: 108:109279
TITLE: Novel indoloditerpenes, emindoles, and their related compounds from Emericella spp
AUTHOR(S): Nozawa, Kohei; Nakajima, Seiichi; Kawai, Kenichi; Udagawa, Shunichi; Horie, Yoshikazu; Yamazaki, Mikio
CORPORATE SOURCE: Fac. Pharm. Sci., Hoshi Univ., Japan
SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1987), 29, 637-43
CODEN: TYKYDS
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB In the course of survey of paxilline (I) in *Emericella* spp., new-type indoloditerpenes, emindoles DA (II) and DB (III), and emindole SA (IV), were isolated from the mycelial extract of *E. desertorum* and *E. striata*, resp. The structure of II, III, and IV were determined on the basis of the spectroscopic and chemical data of their derivs. and x-ray crystallog. of emindole DA monoacetate. Three new compds. related to I, emindole SB, dehydroxypaxilline, and paxilline acetate, were also isolated along with I and paspaline from the mycelium of *E. striata*, and their structures were elucidated by the spectroscopic and chemical investigation. Two different types of indoloditerpenes, emindole SA and paxilline analogs (paspaline, emindole SB, dehydroxypaxilline, and paxilline acetate) were isolated from the same fungus, *E. striata*. Isolation of paspaline, emindole SB, dehydroxypaxilline and paxilline acetate from the same fungus may suggest the biogenesis of I.

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1980:446901 CAPLUS
DOCUMENT NUMBER: 93:46901
TITLE: Paspalinine, a tremorgenic metabolite from *Claviceps paspali* Stevens et Hall
AUTHOR(S): Gallagher, Rex T.; Finer, Janet; Clardy, Jon; Leutwiler, Albert; Weibel, Franz; Acklin, Werner; Arigoni, Duilio
CORPORATE SOURCE: Dep. Chem., Cornell Univ., Ithaca, NY, 14853, USA
SOURCE: Tetrahedron Letters (1980), 21(3), 235-8
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB The structure and absolute configuration of paspalinine (I) were determined by UV, IR, and NMR spectroscopy, and by x-ray crystallog.

=>

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

43.10

48.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-5.46

-5.46

FILE 'REGISTRY' ENTERED AT 19:40:21 ON 29 AUG 2007

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DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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conducting SmartSELECT searches.

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

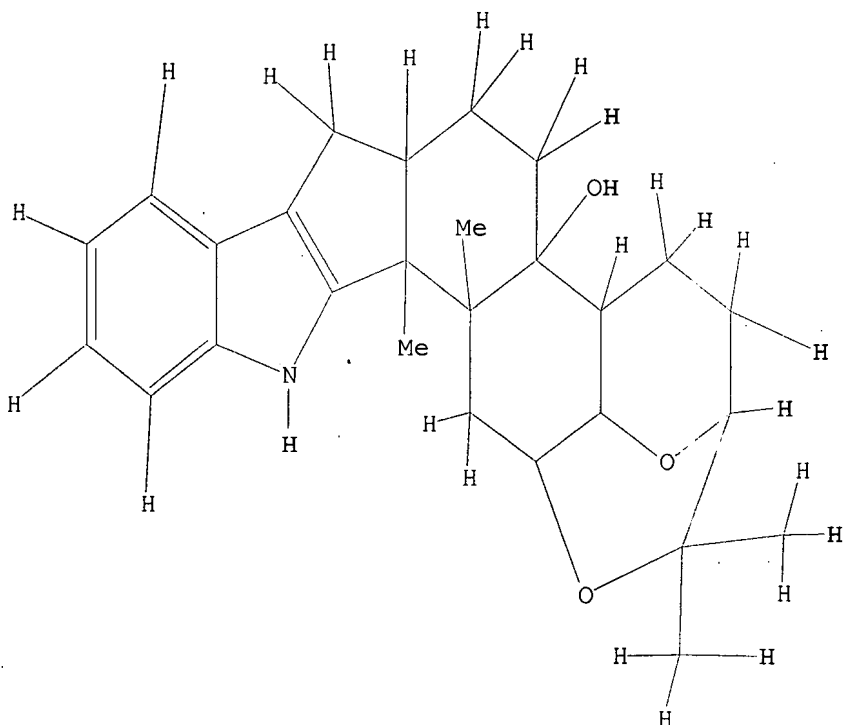
Uploading C:\Documents and Settings\pdickinson\My Documents\Paspalinine.str

L4 STRUCTURE UPLOADED

=> d l4

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l4

SAMPLE SEARCH INITIATED 19:40:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 84 TO ITERATE

100.0% PROCESSED 84 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1131 TO 2229
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s l4 full

FULL SEARCH INITIATED 19:40:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1771 TO ITERATE

100.0% PROCESSED 1771 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L4

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	220.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.46

FILE 'CAPLUS' ENTERED AT 19:41:03 ON 29 AUG 2007
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FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

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=> s l4

REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 19:41:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 84 TO ITERATE

100.0% PROCESSED 84 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1131 TO 2229
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L4

L8 0 L7

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.46	230.19
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.46

FILE 'CAPLUS' ENTERED AT 19:51:50 ON 29 AUG 2007
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FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	230.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.46

FILE 'REGISTRY' ENTERED AT 19:51:52 ON 29 AUG 2007
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DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

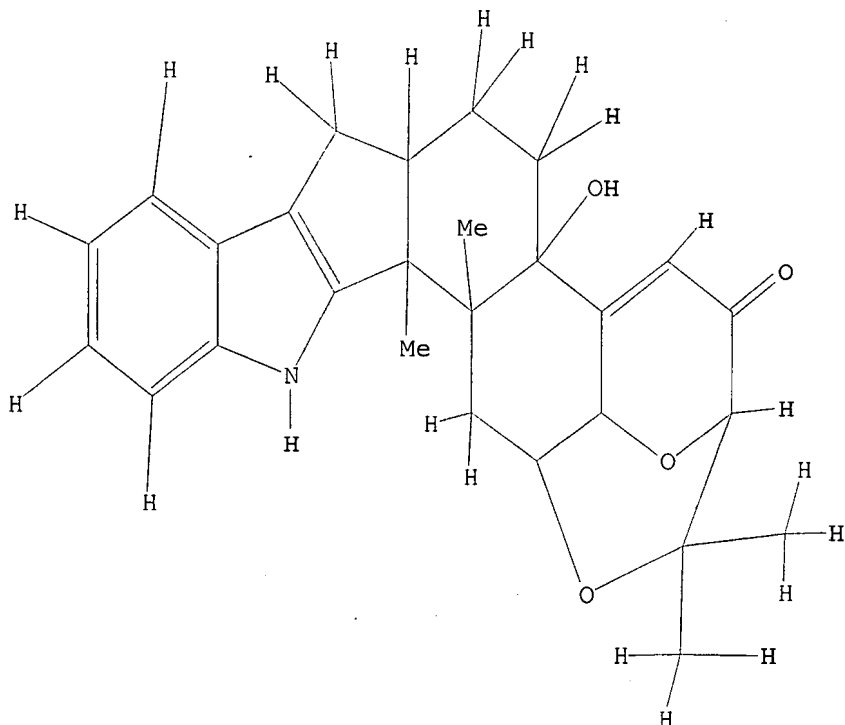
Uploading C:\Documents and Settings\pdickinson\My Documents\Literature Paspalinine.str

L9 STRUCTURE UPLOADED

=> d l9

L9 HAS NO ANSWERS

L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l19

L19 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l9

SAMPLE SEARCH INITIATED 19:52:33 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 84 TO ITERATE

100.0% PROCESSED 84 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1131 TO 2229
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s l9 full

FULL SEARCH INITIATED 19:52:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1771 TO ITERATE

100.0% PROCESSED 1771 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L11 0 SEA SSS FUL L9

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e paspalinine

E1	2	PASPALINIC/BI
E2	1	PASPALININ/BI
E3	6 -->	PASPALININE/BI
E4	3	PASPALITREM/BI
E5	4	PASPALOIDES/BI
E6	35	PASPALUM/BI
E7	1	PASPAT/BI
E8	1	PASPER/BI
E9	5	PASPER2/BI
E10	1	PASPERTIN/BI
E11	1	PASPHEN/BI
E12	1	PASPHENE/BI

=> s e3

L1 6 PASPALININE/BI

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.40	6.45

FILE 'CAPLUS' ENTERED AT 17:27:52 ON 04 SEP 2007

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=> s l1 and blocker

33 L1
42236 BLOCKER
37613 BLOCKERS
65491 BLOCKER
(BLOCKER OR BLOCKERS)

L2 2 L1 AND BLOCKER

=> d l2

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:1006788 CAPLUS

DN 140:53461

TI Maxi-K potassium channel blockers for treatment of glaucoma and as ocular neuroprotective agents

IN Goetz, Michael A.; Kaczorowski, Gregory J.; Monaghan, Richard L.; Strohl,

William R.; Tkacz, Jan S.
 PA Merck & Co., Inc., USA
 SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003105868	A1	20031224	WO 2003-US19013	20030613
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2488884	A1	20031224	CA 2003-2488884	20030613
	AU 2003245531	A1	20031231	AU 2003-245531	20030613
	EP 1515730	A1	20050323	EP 2003-739159	20030613
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2005538061	T	20051215	JP 2004-512770	20030613
	US 2005239787	A1	20051027	US 2004-511664	20041018
PRAI	US 2002-389205P	P	20020617		
	WO 2003-US19013	W	20030613		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 2

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1996:756504 CAPLUS
 DN 126:26785
 TI Effects of the K⁺ channel blockers paspalitrem-C and paxilline on mammalian smooth muscle
 AU DeFarias, Fernando P.; Carvalho, Marcia F.; Lee, Seok H.; Kaczorowski, Gregory J.; Suarez-Kurtz, Guilherme
 CS Dep. Bioquim. Med., Univ. Fed. Rio de Janeiro, Rio de Janeiro, RJ-21941-590, Brazil
 SO European Journal of Pharmacology (1996), 314(1/2), 123-128
 CODEN: EJPHAZ; ISSN: 0014-2999
 PB Elsevier
 DT Journal
 LA English

=> s l1

L3 33 L1

=> s l1 and py<=2002

33 L1

22887930 PY<=2002

L4 28 L1 AND PY<=2002

=> d 1-28 ti

L4 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Toxigenic fungi in human environment

L4 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Effects of the K⁺ channel blockers paspalitrem-C and paxilline on mammalian smooth muscle

L4 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Cyclopenta[b]indoles. Part 2. Model studies towards the tremorgenic mycotoxins

L4 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Antiinsectan alkaloids: shearinines A-C and a new paxilline derivative from the ascostromata of *Eupenicillium shearii*

L4 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI New paspalinine derivatives with antiinsectan activity from the sclerotia of *Aspergillus nomius*

L4 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Tremorgenic Indole Alkaloids Potently Inhibit Smooth Muscle High-Conductance Calcium-Activated Potassium Channels

L4 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Tremorgenic mycotoxins having indoloditerpene moiety

L4 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Indole antiinsectan *Aspergillus* metabolites.

L4 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Tremorgenic mycotoxins, paspalitrem A and C, from a tropical *Phomopsis*

L4 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Aflavarin and β -aflatrein: new anti-insectan metabolites from the sclerotia of *Aspergillus flavus*

L4 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Total syntheses of (+)-paspalicine and (+)-paspalinine

L4 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Indole diterpene synthetic studies. 8. The total synthesis of (+)-paspalicine and (+)-paspalinine

L4 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI The total synthesis of (+)-paspalicine and (+)-paspalinine

L4 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Isolation and determination of paspalitrem-type tremorgenic mycotoxins using liquid chromatography with diode-array detection

L4 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Total syntheses of (+)-paspalicine and (+)-paspalinine

L4 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Production of alfatrem and its related indoloditerpenes by microsclerotium-producing strains of *Aspergillus flavus*

L4 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Experimental constraints in the study of the biosynthesis of indole alkaloids in fungi

L4 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Studies of fungal products. Part XXVI. Isolation and structures of two new indoloditerpenes related to aflavinine from a microsclerotium-producing strain of *Aspergillus flavus*

L4 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

TI Indole diterpene synthetic studies. 5. Development of a unified synthetic strategy; a stereocontrolled, second-generation synthesis of (-)-paspaline

L4 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Carbon-13 NMR spectroscopy of indole derivatives

L4 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Novel indoloditerpenes, emindoles, and their related compounds from *Emericella* spp

L4 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Action of tremorgenic mycotoxins on GABAA receptor

L4 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Standardized high-performance liquid chromatography of 182 mycotoxins and other fungal metabolites based on alkylphenone retention indexes and UV-VIS spectra (diode array detection)

L4 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI High-performance liquid chromatographic determination of profiles of mycotoxins and other secondary metabolites

L4 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Paspalitrem C, a new metabolite from sclerotia of *Claviceps paspali*

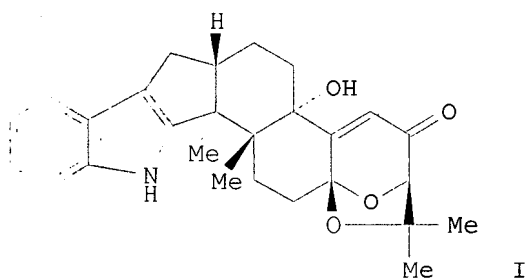
L4 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Indole metabolites from a strain of *Aspergillus flavus*

L4 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Paspalinine, a tremorgenic metabolite from *Claviceps paspali* Stevens et Hall

L4 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 TI *Paspalum* staggers: isolation and identification of tremorgenic metabolites from sclerotia of *Claviceps paspali*

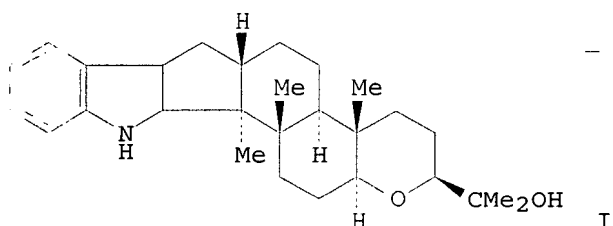
=> d 27, 25, 13, 12, 5, 1 ibib abs

L4 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1980:446901 CAPLUS
 DOCUMENT NUMBER: 93:46901
 TITLE: Paspalinine, a tremorgenic metabolite from *Claviceps paspali* Stevens et Hall
 AUTHOR(S): Gallagher, Rex T.; Finer, Janet; Clardy, Jon; Leutwiler, Albert; Weibel, Franz; Acklin, Werner; Arigoni, Duilio
 CORPORATE SOURCE: Dep. Chem., Cornell Univ., Ithaca, NY, 14853, USA
 SOURCE: Tetrahedron Letters (1980), 21(3), 235-8
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The structure and absolute configuration of paspalinine (I) were determined by UV, IR, and NMR spectroscopy, and by x-ray crystallog.

L4 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1984:526410 CAPLUS
 DOCUMENT NUMBER: 101:126410
 TITLE: Paspalitrem C, a new metabolite from sclerotia of *Claviceps paspali*
 AUTHOR(S): Dorner, Joe W.; Cole, Richard J.; Cox, Richard H.; Cunfer, Barry M.
 CORPORATE SOURCE: Natl. Peanut Res. Lab., U.S. Dep. Agric., Dawson, GA, 31742, USA
 SOURCE: Journal of Agricultural and Food Chemistry (1984), 32(5), 1069-71
 CODEN: JAFCAU; ISSN: 0021-8561
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB A new metabolite was purified from CHCl_3 exts. of *C. paspali* sclerotia by column chromatog. and preparative, centrifugally accelerated TLC. The chemical structure of the metabolite was determined by ^1H - and ^{13}C -NMR spectroscopy to be paspalitrem C (I). Paspalitrem C differed from the previously identified tremorgen, paspalitrem A, only by the position of attachment of the 3-methyl-2-butenyl unit to the indole ring.

L4 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:680346 CAPLUS
 DOCUMENT NUMBER: 115:280346
 TITLE: The total synthesis of (+)-paspalicine and (+)-paspalinine
 AUTHOR(S): Klingery-Wood, Jill Elizabeth
 CORPORATE SOURCE: Univ. Pennsylvania, Philadelphia, PA, USA
 SOURCE: (1991) 266 pp. Avail.: Univ. Microfilms Int., Order No. DA9125690
 From: Diss. Abstr. Int. B 1991, 52(3), 1438-9
 DOCUMENT TYPE: Dissertation
 LANGUAGE: English

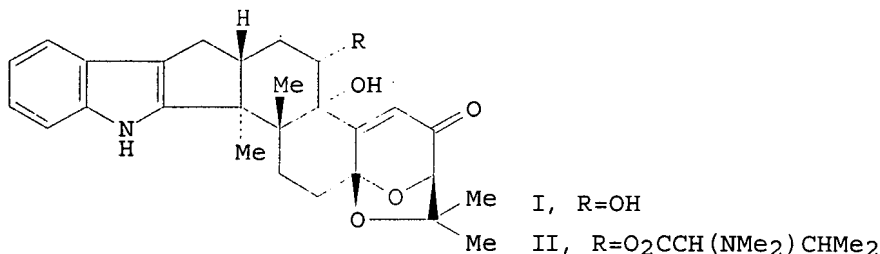
AB Unavailable

L4 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:129296 CAPLUS
DOCUMENT NUMBER: 116:129296
TITLE: Indole diterpene synthetic studies. 8. The total synthesis of (+)-paspalicine and (+)-paspalinine
AUTHOR(S): Smith, Amos B., III; Kingery-Wood, Jill; Leenay, Tamara L.; Nolen, Ernest G.; Sunazuka, Toshiaki
CORPORATE SOURCE: Dep. Chem., Univ. Pennsylvania, Philadelphia, PA, 19104, USA
SOURCE: Journal of the American Chemical Society (1992), 114(4), 1438-49
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:129296
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The development of a unified synthetic strategy for the indole diterpene tremorgens has led to the first total syntheses of (+)-paspalicine (I; R = H) and (+)-paspalinine (I; R = OH), in 22 and 23 steps, resp. The cornerstone of the approach is the intermediacy of (-)-II this proposed common precursor to the simple indole diterpenes was previously generated in nine steps from (+)-Wieland-Miescher ketone (III) in an earlier synthesis of (-)-paspaline. Key transformations include installation of the indole unit via the Gassman protocol, alkylation of the thermodyn. anion of dimethylhydrazone IV with epoxide (-)-V, and RhCl₃-promoted isomerization of the β,γ -unsatd. ketone in (+)-VI to afford I (R = H). I (R = OH) in turn was secured via SeO₂ oxidation of I (R = H), a particularly noteworthy result given the importance of the C(4b) hydroxyl group for tremorgenic activity. MM2 calcns. revealed that I embody the less stable relative configuration of the F- and G-ring bicyclic ketal moiety.

L4 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:293633 CAPLUS
DOCUMENT NUMBER: 120:293633
TITLE: New paspalinine derivatives with antiinsectan activity from the sclerotia of Aspergillus nomius
AUTHOR(S): Staub, Gail M.; Gloer, Katherine B.; Gloer, James B.
CORPORATE SOURCE: Dep. Chem., Univ. Iowa, Iowa City, IA, 52242, USA
SOURCE: Tetrahedron Letters (1993), 34(16), 2569-72
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB 14-Hydroxypaspalinine (I) and 14-(N,N-dimethyl-L-valyloxy)paspalinine (II) were isolated from the sclerotia of *Aspergillus nomius*, and identified by anal. of 2D NMR data. Both compds. caused 90% reduction in weight gain in assays against the corn earworm *Helicoverpa zea* at the 100 ppm (dry weight) dietary level. Paspalinine caused no effect at this concentration

L4 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:127616 CAPLUS
DOCUMENT NUMBER: 136:305407
TITLE: Toxigenic fungi in human environment
AUTHOR(S): Krikstaponis, A.; Stakeniene, J.; Lugauskas, A.
CORPORATE SOURCE: Institute of Botany, Vilnius, LT-2021, Lithuania
SOURCE: Biologija (2001), (4), 10-12
CODEN: BOLOE8; ISSN: 1392-0146
PUBLISHER: Lietuvos Mokslu Akademijos Leidykla
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Fungal species compns. on vegetable-born food products and in the air and dust of dwellings were studied in 1996-2000. Seven food selling-storage places and 14 residences were investigated, 179 samples of 94 names of food products as well as 50 air and 118 dust samples were surveyed. Ability of 393 fungal isolates to produce secondary metabolites grown on Czapek - yeast extract and yeast extract - sucrose agar media was tested, 124 strains were regarded as active producers of secondary metabolities.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT